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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677,574	10/03/2000	Shuwei Yang	0942.4500004/RWE/BJD	1982
26111 75	590 10/19/2005	EXAMINER		
	SSLER, GOLDSTEI RK AVENUE, N.W.	HUTSON, RICHARD G		
WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			1652	-

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			-11-4141			
Office Action Summary		Ap	plication No.	Applicant(s)		
		. 09	/677,574	YANG ET AL.		
		Ex	aminer	Art Unit		
			hard G. Hutson	1652		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHICHEVE - Extensions of t after SIX (6) M - If NO period fo - Failure to reply Any reply recei	NED STATUTORY PERIOD FO R IS LONGER, FROM THE MA ime may be available under the provisions of ONTHS from the mailing date of this commur r reply is specified above, the maximum statu within the set or extended period for reply wi tived by the Office later than three months afte term adjustment. See 37 CFR 1.704(b).	ILING DATE 37 CFR 1.136(a). nication. tory period will app II, by statute, cause	OF THIS COMMUNICATION In no event, however, may a reply be timely and will expire SIX (6) MONTHS from the the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status						
 Responsive to communication(s) filed on 8/2/2005. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of (Claims					
4) Claim(s) 1,2,6-9,14,17,20,37-40,69 and 71-75 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,6-9,14,17,20,37-40,69 and 71-75 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
<u> </u>		Evaminor				
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 3	35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice of Draft 3) Information D	erences Cited (PTO-892) Itsperson's Patent Drawing Review (PTO- isclosure Statement(s) (PTO-1449 or PTO- Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

DETAILED ACTION

Applicant's amendment of claims 1 and 2 in the paper of, 8/2/2005 is acknowledged.

Claims 1, 2, 6-9, 14, 17, 20, 37-40, 69 and 71-75 are still at issue and are present for examination. Applicants' arguments filed on 8/2/2005 have been fully considered and are deemed to be persuasive to overcome some of the rejections previously applied. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn.

Claim Objections

Claims 1, 2 and 39 are objected to because of the following informalities:

Claims 1 and 2 each recite "amino acid positions Arg722 of said Thermotoga neapolitana polymerase..." While acknowledging that applicants plural use of "positions" is also meant to accommodate "Lys726 and Phe730 of said Thermotoga neapolitana polymerase", it is suggested that applicants amend the above to read more clearly such as "amino acid position Arg722 of said Thermotoga neapolitana polymerase..." and "amino acid position Lys726 of said Thermotoga neapolitana polymerase..." or "amino acid position Phe730 of said Thermotoga neapolitana polymerase...".

Claim 39 is a duplicate of claim 38.

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 is indefinite in that it is unclear how claim 2 is different from claim 1, based on the fact that both claims are drawn to the same structural Pol I type Tne DNA polymerase mutant. As the only difference between the two claimed mutants is that claim 1 necessitates that the modification "increases or enhances fidelity" and claim 2 necessitates that the modification "reduces or eliminates misincorporation of nucleotides during synthesis" and one of skill in the art would knows that to increase or enhance fidelity is to reduce or eliminate misincorporation of nucleotides during synthesis. Thus it remains unclear and thus indefinite how the two claims are different.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 2, 6-9, 14, 17, 20, 37-40, 69 and 71-75 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that

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the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 1, 2, 6-9, 14, 17, 20, 37-40, 69 and 71-75 are rejected under this statue because applicants claims to those Pol I Tne DNA polymerase mutants which are "double mutants" comprising either mutations at "Arg722 and Lys 726" or "Arg 722 and Phe 730" are not supported by the specification at the time of filing and thus considered new matter.

Applicant is referred to the revised guidelines concerning compliance with the written description requirement of U.S.C. 112, first paragraph, published in the Official Gazette and also available at www.uspto.gov.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard G. Hutson whose telephone number is (571) 272-0930. The examiner can normally be reached on 7:30 am to 4:00 pm, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on (571) 272-0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard G Hutson, Ph.D. Primary Examiner Art Unit 1652

rgh 10/5/2005